

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																							
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :	
Misidentified ☐	Past Due ☐																																																														

Work Order ID 166357***166357***

Page 2

Monday, September 18, 2017 8:53:38 AM

Item ID: 647.3704 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: 204,205,212,214 Cable Cutter System, High
Start Date: 9/18/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 9/26/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging	Identify as per dwg & Stock Location: _____ Packaging Memo <i>sold</i> Identify and pack for shipping as per PPP 647.3704 Location: _____	0.00 0.00				<u>1</u>	DAS 28 9-89	<u>SEP 20 2017</u>	
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.10						<i>17/9/21</i>	<i>[Signature]</i>

WY 17/9/20

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Monday, September 18, 2017 8:53:41 AM

166357

647 3704

Required Qty: 1.00

Comments: IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM IPP
REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM IPP REV:C AS
PER REV NC3 15.03.18 JLM VERIFIED BY:DD

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : _____									

Picklist Print

Monday, September 18, 2017 8:53:41 AM

Page 2

Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

601.3083
601 3083
Adhesive Rubber Seal
DAS 28
9-89

Manufactured No

110 Each 3.0000 1 1

**

SEP 19 2017 DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

cck009

3

163199

3

647.3802
647 3802
212 Upper Cutter Assembly
DAS 28
9-89

Manufactured No

110 Each 6.0000 1 1

**

SEP 19 2017 DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

cck030

6

124717

6

647.3804
647 3804
Lower Cutter Assembly High
DAS 28
9-89

Manufactured No

110 Each 3.0000 1 1

**

SEP 19 2017 DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

CCK027

3

161341

1

163323

2

2/6/2019

4/25/2019

647.3903
647 3903
Deflector Assembly
DAS 28
9-89

Manufactured No

110 Each 2.0000 1 1

**

SEP 19 2017 DAS 6 27
9-89 9-89

Location

Loc Qty

Loc Code

cck016

2

163449

2

8/28/2019

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Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

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Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

647.4010
647 4010
Wiper Deflector RH

DAS
28
9-89

Manufactured No

110 Each

16.0000

1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

cck060

16

158472

16

647.4011
647 4011
Wiper Deflector LH

DAS
28
9-89

Manufactured No

110 Each

4.0000

1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK051

4

155433

4

647.4110
647 4110
Doubler

DAS
28
9-89

Manufactured No

110 Each

4.0000

1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK080

4

162408

4

647.4111
647 4111
Doubler

DAS
28
9-89

Manufactured No

110 Each

9.0000

1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

cck111

9

154906

1

161210

8

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Page 4

Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

647.4112
647 4112

Clip

DAS
28
9-89

Manufactured No

110 Each 8.0000 1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

8

154921

2

162469

6

647.4113
647 4113

Clip

DAS
28
9-89

Manufactured No

110 Each 12.0000 1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

12

154922

1

163487

11

647.4114
647 4114

Shim

DAS
28
9-89

Manufactured No

110 Each 6.0000 2 2

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

6

162365

6

647.4115
647 4115

Shim

DAS
28
9-89

Manufactured No

110 Each 6.0000 2 2

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

6

162370

6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

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Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

647.4116
647 4116
Shim

Manufactured No

110 Each 9.0000 1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

9

158848

9

647.4210
647 4210
Bracket LH

Manufactured No

110 Each 15.0000 1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

15

161755

15

647.4211
647 4211
Bracket RH

Manufactured No

110 Each 15.0000 1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

15

155386

1

161784

14

647.4212
647 4212
Plate

Manufactured No

110 Each 8.0000 1 1

**

DAS
6
9-89

SEP 19 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

cck111

8

150884

8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

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Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

647.4310
647 4310
LH Lower Strut

Manufactured No

110 Each 8.0000 1 1

**

DAS 27
6 9-89
SEP 10 2017

Location

Loc Qty

Loc Code

CCK072

8

158229

8

647.4311
647 4311
RH Lower Strut

Manufactured No

110 Each 8.0000 1 1

**

DAS 27
6 9-89
SEP 10 2017

Location

Loc Qty

Loc Code

CCK073

8

161672

8

647.4312
647 4312
LH Upper Strut

Manufactured No

110 Each 11.0000 1 1

**

DAS 27
6 9-89
SEP 19 2017

Location

Loc Qty

Loc Code

CCK074

11

154503

2

162442

9

647.4313
647 4313
RH Upper Strut

Manufactured No

110 Each 7.0000 1 1

**

DAS 27
6 9-89
SEP 19 2017

Location

Loc Qty

Loc Code

CCK075

7

154502

1

158436

6

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : _____									

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Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

647.4410
647 4410

Rail

DAS
28
9-89

Manufactured No

110 Each 10.0000 1 1

**

DAS
6
9-89
SEP 19 2017
DAS
27
9-89

Location

Loc Qty

Loc Code

CCK081

10

155358

10

AN3-11A

AN3-11A

Bolt

DAS
28
9-89

Purchased No

110 Each 63.0000 8 8

**

DAS
6
9-89
SEP 19 2017
DAS
27
9-89

Location

Loc Qty

Loc Code

ST349

63

m136192

63

AN3-4A

AN3-4A

Bolt

Purchased No

110 Each 342.0000 3 3

**

DAS
6
9-89
SEP 19 2017
DAS
27
9-89

Location

Loc Qty

Loc Code

ST350

342

m138260

342

AN3C10A

AN3C10A

Bolt

DAS
28
9-89

Purchased No

110 Each 12.0000 2 2

**

DAS
6
9-89
SEP 19 2017
DAS
27
9-89

Location

Loc Qty

Loc Code

ST349

12

m137321

12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
☐ Environment	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
☐ Design	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
☐ Doc/Data	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
☐ Equip/Tooling	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
☐ Handling/Pre	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
☐ Material	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
☐ Internal Transport	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
☐ Tribal Knowledge	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
☐ LOA	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
☐ Substation	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
☐ Past Expiry Date	☐ Manufacturing Process	OTHER : _____					
☐ Misidentified	☐ Past Due						

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Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

CCR264SS-3-03

Purchased

No

110

Each

109.0000

16

16

CCR264SS-3-03

Cherry Rivet

**

DAS
6
9-89

DAS
27
9-89
SEP 19 2017

Location

Loc Qty

Loc Code

LG001

13

m134023

13

ST321

96

m137164

28

m138045

68

CCR264SS3-04

Purchased

No

110

Each

234.0000

12

12

CCR264SS3-04

Rivet

**

DAS
6
9-89

DAS
27
9-89
SEP 19 2017

Location

Loc Qty

Loc Code

ST321

234

m137391

34

m138333

200

CR3212-4-2

Purchased

No

110

Each

25.0000

5

5

CR3212-4-2

Cherry Rivet

**

DAS
6
9-89

DAS
27
9-89
SEP 19 2017

Location

Loc Qty

Loc Code

ST320

25

m137164

25

CR3212-4-3

Purchased

No

110

Each

130.0000

17

17

CR3212-4-3

Cherry Rivet

**

DAS
6
9-89

DAS
27
9-89
SEP 19 2017

Location

Loc Qty

Loc Code

FP001

20

m136741

20

ST320

110

m136741

110

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

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Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

CR3212-4-4
CR3212-4-4
CHERRY RIVET

CR3212-4-04 Purchased No

110 Each 100.0000 7 7

**

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

100

m138333

100

DAS
28
9-89

SEP 19 2017

DAS
27
9-89

CR3213-4-2
CR3213-4-2
Cherry Rivet

Purchased No

110 Each 266.0000 31 31

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST320

266

m138336

266

DAS
28
9-89

SEP 19 2017

DAS
27
9-89

CR3213-4-3
CR3213-4-3
Rivet, Cherry

Purchased No

110 Each 378.0000 24 24

**

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

92

m136042

92

ST319

286

m138326

286

DAS
28
9-89

SEP 19 2017

DAS
27
9-89

CR3213-4-4
CR3213-4-4
Rivet, Cherry

Purchased No

110 Each 390.0000 16 16

**

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

390

m138333

390

DAS
28
9-89

SEP 19 2017

DAS
27
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER : _____							
Misidentified ☐	☐	Past Due								

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Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-5 Purchased No 110 Each 200.0000 28 28

CR3213-4-5

Rivet

**

DAS

SEP 19 2017

DAS

27
9-89

Location

Loc Qty

Loc Code

CCK003

200

M138040

100

M138441

100

138326

CR3213-4-8 Purchased No 110 Each 67.0000 4 4

CR3213-4-8

Rivet

**

DAS

SEP 19 2017

DAS

27
9-89

Location

Loc Qty

Loc Code

ST319

67

m136983

67

MS21042-08 MS21042L08 Purchased No 110 Each 0.0000 18 18

MS21042-08

USE MS21042L08

**

DAS

SEP 19 2017

DAS

27
9-89

MS21042-3 MS21042L3 Purchased No 110 Each 0.0000 79 79

MS21042-3

Nut

**

DAS

SEP 19 2017

DAS

27
9-89

MS21047-3 Purchased No 110 Each 81.0000 4 4

MS21047-3

Nut Plate

**

DAS

SEP 19 2017

DAS

27
9-89

Location

Loc Qty

Loc Code

ST301

81

m138040

81

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

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Work Order ID: 166357

166357

Parent Item: 647.3704

647.3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

MS21047L06

Purchased No

110 Each

59.0000

6 6

MS21047L06

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

59

m137166

9

m138408

50

MS21047L08

Purchased No

110 Each

26.0000

6 6

MS21047L08

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

26

m137615

1

m137988

25

MS21071L3

Purchased No

110 Each

49.0000

4 4

MS21071L3

ANCHOR NUT

DAS
28
9-89

Location

Loc Qty

Loc Code

S299

49

m137680

49

MS24694-C53

Purchased No

110 Each

98.0000

8 8

MS24694-C53

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST285

98

m137951

98

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

MS24694-S49

Purchased No

110 Each 159.0000 1 1

MS24694-S49

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

100

m129499

100

ST284

59

m129702

59

MS27039-08-08

Purchased No

110 Each 71.0000 16 16

MS27039-08-08

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

71

m130325

71

MS27039-08-11

Purchased No

110 Each 1,474.000 2 2

MS27039-08-11

SCREW

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

1000

m138336

1000

ST278

474

m138336

474

MS27039-1-07

Purchased No

110 Each 124.0000 12 12

MS27039-1-07

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST281

124

m137736

24

m138409

100

DAS
27
9-89
SEP 19 2017

DAS
27
9-89
SEP 19 2017

DAS
27
9-89
SEP 19 2017

DAS
27
9-89
SEP 19 2017

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date: _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : _____									

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Monday, September 18, 2017 8:53:42 AM

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Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-09

Purchased

No

110

Each

121.0000

14

14

MS27039-1-09

Screw

**

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

17

18057

17

GA

18

124859

18

ST280

86

m137544

86

MS27039-1-10

Purchased

No

110

Each

213.0000

42

42

MS27039-1-10

SCREW

**

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

15

m129541

15

over006

100

m138045

100

ST280

98

m137597

30

m137736

5

m138045

63

NAS1149F0332P

Purchased

No

110

Each

1,269.0000

157

157

NAS1149F0332P

Washer

**

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

77

m133709

77

ST262

1192

m138209

1192

Monday, September 18, 2017 8:53:42 AM

Shop Packet Print

Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Monday, September 18, 2017 8:53:42 AM

Work Order ID: 166357

166357

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/18/2017

Required Date: 9/26/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

110

Each

4,232.000

34

34

NAS1149FN832P

Washer

**

DAS
SEP 19 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

2365

M137820

43

M138336

2322

ST263

1867

M138336

1867

36

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																



04881

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C	PREPARED BY
----------	-------------

J. BECKER

DATE: 02/26/15

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR *T. Brown*

MFG

3. Answer → 1

QC

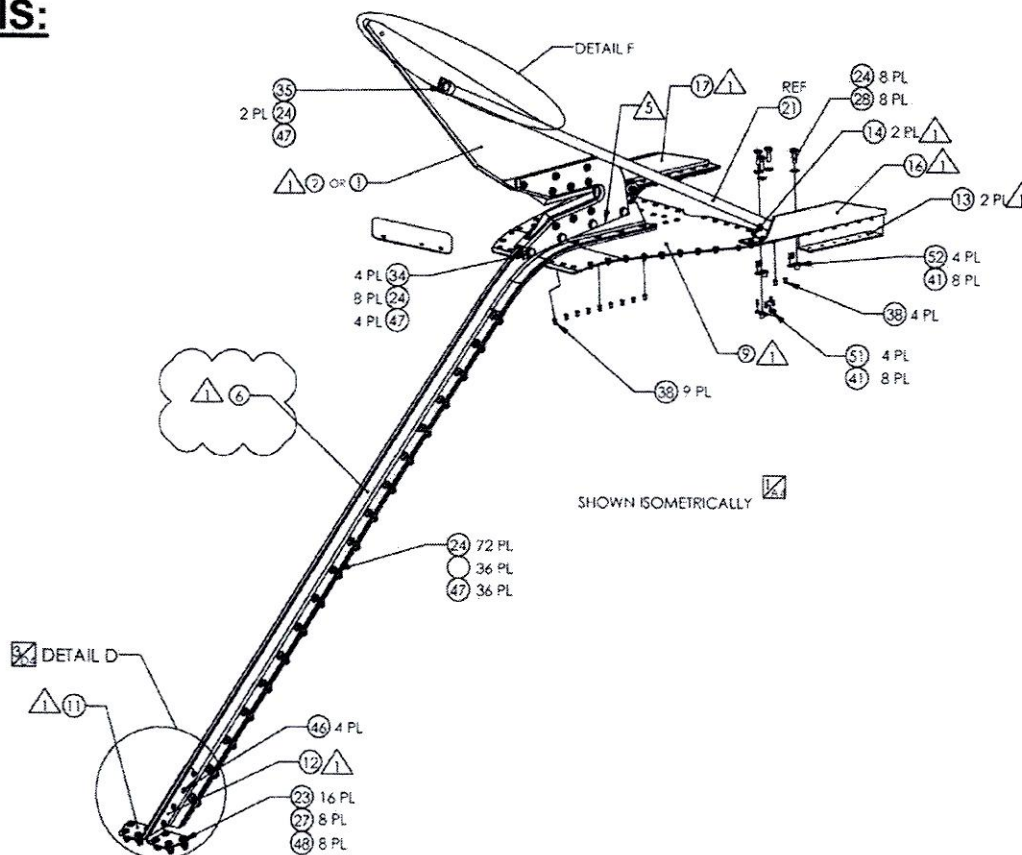
EFF.	NEXT ORDER
------	------------

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: DELETED F/N 57, REVISED F/N 6.

ECR: N/A

SHEET 1, ZONE C5 IS:



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

NO. 166357 MWS
120926

57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF			
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY			
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION		MATERIAL	SPECIFICATION
			QTY							
DOCUMENTS EFFECTED:							CHANGE CATEGORY		DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR		☐ YES ☒ NO	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : ☐									



04845

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY J. BECKER

DATE: 02/11/15

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:	ENGR
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MFG

QC

EFF.	NEXT ORDER
------	------------

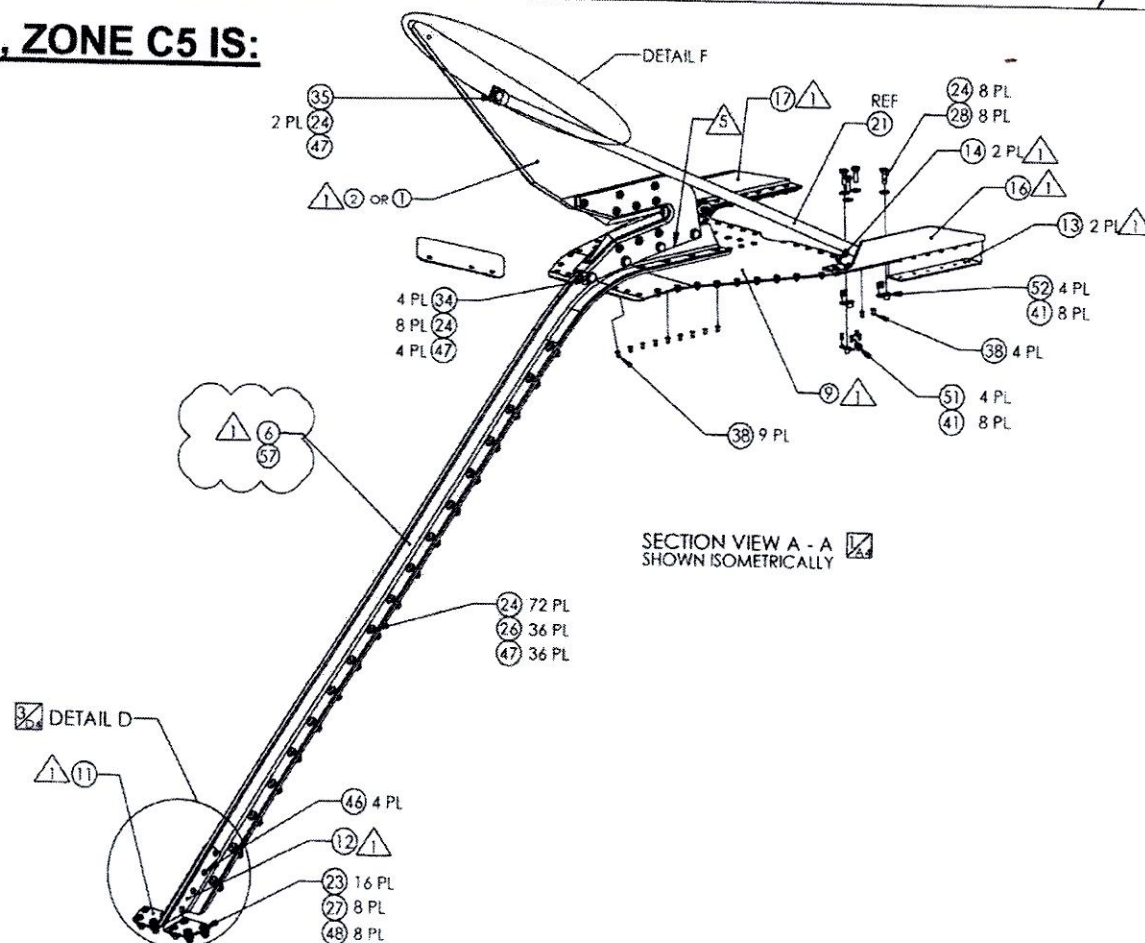
TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: ADDED F/N 57

ECR:

SHEET 1, ZONE C5 IS:

ACTION ITEM:	1.
--------------	----



57	A	647.3916	1	1	1	1	DEFLECTOR UPPER HALF			
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION		MATERIAL	SPECIFICATION
			QTY							
DOCUMENTS EFFECTED:							☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM		CHANGE CATEGORY	DER REVIEW REQUIRED
							☐ MAJOR ☒ MINOR		☐ YES ☒ NO	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER :							
Misidentified ☐	☐ Past Due								

INDUSTRIES, INC.

SHEET 1 OF 1

REV: NC

PREPARED
BY

R. ROSANO

DATE: 12/23/09

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

KMFC

QC

EFF:

~~NEXT ORDER~~

TRANSACTION CODES (TC)	
A-ADD	C-CREATE
R-REVISE	D-DELETE

REASON: ADDED MODEL 214 TO APPROPRIATE DESCRIPTIONS

SHEET 1, ZONE D7 IS:

19

		X			647.3704	204, 205, 212, 214 CABLE CUTTERS KIT HIGH			
			X		647.3703	204, 205, 212, 214 CABLE CUTTERS KIT LOW			
				X	647.3702	412 CABLE CUTTERS KIT HIGH			
				X	647.3701	412 CABLE CUTTERS KIT LOW			
	.3704	.3703	.3702	.3701	FIND	PART #	DESCRIPTION	NAT'L	SPEC.

F/N	TC	PART NUMBER	2901
			QTY

PTY

DESCRIPTION

MATERIAL

SPECIFICATION

DOCUMENTS EFFECTED:

☒ MDL ☒ INSTALL INSTRUC ☒ ICA ☒ BOM

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED
☒ YES ☐ NO

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
OTHER : ☐									

David Duval

From: Jean-Luc Menard
Sent: March-06-17 1:34 PM
To: David Duval
Subject: FW: Rivets

From: Pablo Bravo
Sent: Thursday, March 24, 2016 2:32 PM
To: Mario Poulin <mpoulin@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>
Cc: Shirley Hay <shay@dartaero.com>; Melanie Fauteux <mfauteux@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>; David Duval <dduval@dartaero.com>; Joe Bains <jbains@dartaero.com>
Subject: RE: Rivets

Mario,

Using -2 should be acceptable.

Regards,
Pablo

From: Mario Poulin
Sent: Thursday, March 24, 2016 11:30 AM
To: Jean-Luc Menard; Pablo Bravo
Cc: Shirley Hay; Melanie Fauteux; Marc Bellavance; David Duval
Subject: RE: Rivets

Good afternoon,

Any news on this, we need to ship kit on 29th

Thanks,

Mario

From: Jean-Luc Menard
Sent: Thursday, March 24, 2016 8:49 AM
To: Pablo Bravo <pbravo@dartaero.com>
Cc: Shirley Hay <shay@dartaero.com>; Melanie Fauteux <mfauteux@dartaero.com>; Mario Poulin <mpoulin@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>; David Duval <dduval@dartaero.com>
Subject: RE: Rivets

Hi Pablo,
See below, that series rivet only starts at -2 as per our purchaser, is using a -2 an acceptable deviation?
If yes, I will issue an ECR.
Thx
JL

From: David Duval
Sent: Thursday, March 24, 2016 8:28 AM
To: Jean-Luc Menard <jmenard@dartaero.com>
Cc: Shirley Hay <shay@dartaero.com>; Melanie Fauteux <mfauteux@dartaero.com>; Mario Poulin <mpoulin@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>
Subject: RE: Rivets

Item #36 601.3082 (CR3212-4-1)
As per our purchaser the Series CR3212-4 only start at -2.

Could you verify this issue with Apical please.

Thank.

DAVID DUVAL
Production Engineering Coordinator

From: Mario Poulin
Sent: March-24-16 7:50 AM
To: David Duval <dduval@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>
Cc: Shirley Hay <shay@dartaero.com>; Melanie Fauteux <mfauteux@dartaero.com>
Subject: FW: Rivets

David, Marc

Can you check what can be used. This goes in 647.3703, we should be using 601.3082 that came from Apical. Now we should be using CR3212-4-1 that doesn't exist... part shipping on 29th, we need a solution

Thanks,

Mario,

From: Chantal Lavoie
Sent: Thursday, March 24, 2016 6:57 AM
To: Mario Poulin <mpoulin@dartaero.com>
Subject: RE: Rivets

Hi Mario,
this part # cr3212-4-1 is under 601.3082.
thanks
Chantal

From: Mario Poulin
Sent: Wednesday, March 23, 2016 3:38 PM
To: Chantal Lavoie <clavoie@dartaero.com>
Subject: RE: Rivets

Chantal

Who is asking... this was back in October.

I don't see any demands in the system for these. cr3212-4-1

From: Chantal Lavoie
Sent: Wednesday, March 23, 2016 2:48 PM
To: Mario Poulin <mpoulin@dartaero.com>
Cc: Linda Lacelle <llacelle@dartaero.com>
Subject: FW: Rivets

Hi Mario,
Second request again these do not exist, you require the cr3212-4-1 to ship on the 29 please advise.
Thanks
Chantal

From: Chantal Lavoie
Sent: Wednesday, October 28, 2015 11:40 AM
To: Shirley Hay <shay@dartaero.com>; Mike DiDomenico <mdidomenico@dartaero.com>; Melanie Fauteux <mfauteux@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>
Subject: RE: Rivets

Sorry Guys,
But series CR3212-4 and CR3242-5 only start at -2.
Thanks
Chantal

From: Shirley Hay
Sent: Wednesday, October 28, 2015 11:12 AM
To: Mike DiDomenico <mdidomenico@dartaero.com>; Melanie Fauteux <mfauteux@dartaero.com>; Chantal Lavoie <clavoie@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>
Subject: RE: Rivets

Hey Chantal

Will we be ordering more of the
CR3212-4-1?

Mike

No quote the other
CR3242-5-1

Please let me know if you have any questions or concerns.

Regards
SHIRLEY

From: Mike DiDomenico
Sent: October 28, 2015 11:03 AM
To: Melanie Fauteux <mfauteux@dartaero.com>
Cc: Shirley Hay <shay@dartaero.com>; Mario Poulin <mpoulin@dartaero.com>
Subject: FW: Rivets

Hello,

Can you please advise lead time on the 2 items below?

Thanks
Mike

From: Marco Demi - S.i.m.a. [<mailto:demi@sim.aero>]
Sent: Wednesday, October 28, 2015 6:28 AM
To: Dart Sales <sales@dartaero.com>
Subject: Rivets

Good morning,

please I would like to know the price and the delivery time to have these rivets:

CR3212-4-1

CR3242-5-1

Best Regards

Marco Demi
SIMA SPA EASA PART145-M
C/O AEROPORTO CAPANNORI
VIA DEI PARACADUTISTI
TASSIGNANO 55012
LUCCA - ITALY

REFERENCE ONLY

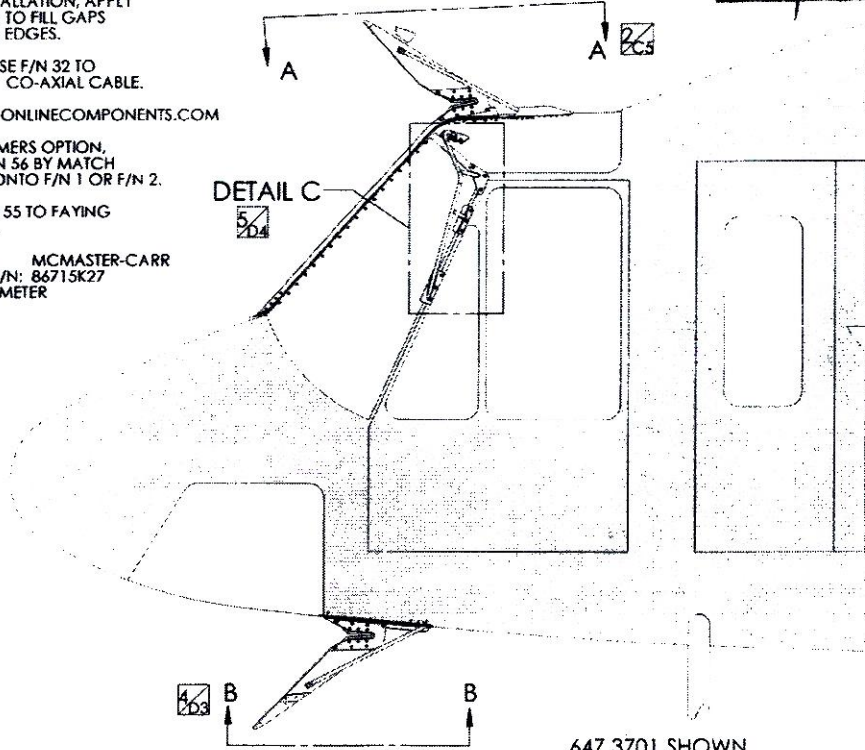
UNINCORPORATED ECN(S)

01728, 04845, 04881

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQD. USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR : ONLINECOMPONENTS.COM
- 4 AT CUSTOMERS OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR : MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DIUROMETER



647.3701 SHOWN

[illegible]

	16	16	16	16	41	601.2207	NUTPLATE RIVET		CCR26455-3-03	
	12	12	12	12	40	601.2491	NUTPLATE RIVET		CCR26453-3-04	
	7	7	4	4	39	601.1066	CHERRY RIVET		CR3212-4-4	
	17	17	17	17	38	601.1065	CHERRY RIVET		CR3212-4-3	
	5	5	6	6	37	601.1604	CHERRY RIVET		CR3212-4-2	
	6	6	6	6	36	601.3082	CHERRY RIVET		CR3212-4-1	
	2	2	2	2	35	601.1874	BOLT		AN3C10A	
	8	8	8	8	34	601.2826	BOLT		AN3-11A	
	3	3	3	3	33	601.2823	BOLT		AT13-4A	
	1	1	1	1	32	601.3073	CONNECTOR		06C-4400	 
	8	8	8	8	31	601.2419	SCREW		MS24644C33	
	1	1	1	1	30	601.3070	SCREW		MS24694-549	
	2	2	2	2	29	601.2893	SCREW		MS27039-06-11	
	14	14	14	14	28	601.3069	SCREW		MS27039-1-09	
	16	16	16	16	27	601.2263	SCREW		MS27039-08-08	
	42	42	42	42	26	601.1365	SCREW		MS27039-1-10	
	12	12	12	12	25	601.2198	SCREW		MS27039-1-07	
	157	157	157	157	24	601.1607	WASHER		NAS1149H0336	
	34	34	34	34	23	601.2764	WASHER		NA21149H0320	
	1	1	1	1	22	647.4313	RH UPPER STRUT			
	1	1	1	1	21	647.4312	LH UPPER STRUT			
	1	1	1	1	20	647.4310	LH LOWER STRUT			
	1	1	1	1	19	647.4311	RH LOWER STRUT			
	1	1	1	1	18	647.4212	PLATE			
	1	1	1	1	17	647.4211	BRACKET RH			
	1	1	1	1	16	647.4210	BRACKET LH			
	1	1	1	1	15	647.4116	SHIM			
	2	2	2	2	14	647.4115	SHIM			
	2	2	2	2	13	647.4114	SHIM			
	1	1	1	1	12	647.4113	CLIP			
	1	1	1	1	11	647.4112	CLIP			
	1	1	1	1	10	647.4111	DOUBLER			
	1	1	1	1	9	647.4110	DOUBLER			
	1	1	1	1	8	647.4011	WIPER DEFLECTOR LH			
	1	1	1	1	7	647.4010	WIPER DEFLECTOR RH			
	1	1	1	1	6	647.3915	DEFLECTOR			
	1	1	1	1	5	647.4410	RAIL			
	1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH			
	1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW			
	1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY			
	1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY			
						647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH			
						647.3703	204, 205, 212 CABLE CUTTERS KIT LOW			
						647.3702	412 CABLE CUTTERS KIT HIGH			
						647.3701	412 CABLE CUTTERS KIT LOW			
	3704	3703	3702	3701	FIND	PART #	DESCRIPTION		MATL	SPEC.

QTY		PARTS LIST
NEXT ASSY (\$)		APICAL INDUSTRIES
	ORIGINAL DATE MAY-08-1986 09-29-09	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3612 (760)724-5300
	DRAWN BY J. JACKSON	CHECKED D. BRYER
	DATE OF APPROVAL 2-28-01	B3
	CONTRACT NO.	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS 3 DECIMALS .001	412 CABLE CUTTERS KIT
		REF. SCALE CODE DIM. REQ. REF.
		B 02M16 647.3700 N/C
		SCALE NONE LOWER PERK.

Monday, September 18, 2017 8:53:38 AM

Page 1

Reference: _____

SEP 18 2017

Approvals: Process Plan: DAS Date: _____ Tooling: _____ Date: _____ Run Start *NR1*

QC: 21 Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

[illegible]

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SR02289LA

This Certificate issued to

Apical Industries, Inc. dba Dart Aerospace
3030 Enterprise Court, Suite A
Vista, California 92081

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 29 and CAR 7 of the Federal Aviation Regulations.*

Original Product Type Certificate Number:

* See attached FAA Approved Model List (AML)
Number SR02289LA for list of approved aircraft
models and applicable airworthiness regulations.

Make:

Model:

Description of Type Design Change: Installation of Apical Industries, Inc. Cable Cutters Kit in accordance with FAA approved Apical Industries, Inc. Master Document List MD412-101, Revision A, dated December 23, 2009, or later FAA approved revision.

Limitations and Conditions: This approval requires the inspections and overhaul schedules to be performed as mandated by Apical Industries, Inc.'s Instructions for Continued Airworthiness, ICA412-101, Revision N/C, dated January 5, 2010, or later FAA accepted revision.

This installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of this permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: September 29, 2009

Date reissued: August 7, 2014

Date of issuance: April 27, 2010

Date amended:

By direction of the Administrator



Haifa Haj-Eid
(Signature)

Haifa Haj-Eid
Supervisor, Technical and Administrative
Support Staff
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.